

ABSTRACT

A ceramic insulating composition including monoclinic zirconia-hafnia. The zirconia-hafnia may be used as a filler powder (14) in a ceramic composition (10), or it
5 may be used as a protective overlayer (50). The zirconia-hafnia (24) may be combined with alumina (22) to achieve a desired elastic modulus. The portion of hafnia contained in the zirconia-hafnia is selected to provide a predetermined phase transition temperature to minimize undesired phase changes during high temperature use of the material.